

PUBLICATIONS

I. Refereed journal papers:

1. **Adel Bouhoula**, Emmanuel Kounalis, and Michaël Rusinowitch. Automated Mathematical Induction. *Journal of Logic and Computation*, 5(5):631--668, 1995.
2. **Adel Bouhoula** and Michael Rusinowitch. Implicit Induction in Conditional Theories. *Journal of Automated Reasoning*, 14(2):189--235, 1995.
3. **Adel Bouhoula**. Using Induction and Rewriting to Verify and Complete Parameterized Specifications. *Theoretical Computer Science*, 170(1-2):245--276, 1996.
4. **Adel Bouhoula**. Automated Theorem Proving by Test Set Induction. *Journal of Symbolic Computation*, 23(1):47-77, 1997.
5. **Adel Bouhoula**, Jean-Pierre Jouannaud, and José Meseguer. Specification and Proof in Membership Equational Logic. *Theoretical Computer Science*, 236(1-2):35--132, 2000.
6. **Adel Bouhoula**, and Jean-Pierre Jouannaud. Automata-Driven Automated Induction. *Information and Computation*, 169(1): 1-22, 2001.
7. **Adel Bouhoula** and Michaël Rusinowitch. Observational proofs by rewriting. *Theoretical Computer Science*, 275(1-2): 675-698, 2002.
8. Tarek Abbes, **Adel Bouhoula** and Michaël Rusinowitch. On the fly pattern matching for intrusion detection with snort. *Anal of Telecommunications*, vol. 59(9-10):941—967, 2004.
9. **Adel Bouhoula**, Zouheir Trabelsi, Ezedin Barka and Mohammed-Anis Ben El Bahri. Firewall Filtering Rules Analysis for Anomalies Detection. *International Journal of Security and Networks*, 3(3): 161-172, 2008.
10. **Adel Bouhoula**. Simultaneous Checking of Completeness and Ground Confluence for Algebraic Specifications. *ACM Transactions on Computational Logic*, 10(3). 2009.
11. Sourour Meharouech, **Adel Bouhoula**, Tarek Abbes. Ensuring Security in Depth based on Heterogeneous Network Security Technologies. *International Journal of Information Security*. 8(4): 233-246. Springer. 2009.
12. Sourour Meharouech, **Adel Bouhoula**, Tarek Abbes. A Security Policy and Network Cartography based Intrusion Detection and Prevention System. *International Journal of Information Assurance and Security (JIAS)*, 4(3): Pages 279. Dynamic Publishers. 2009.
13. Amjad Gawanham, **Adel Bouhoula** and Sofiene Tahar. Rank Functions based Inference System for Group Key Management Protocols Verification. *International Journal of Network Security*. 8(2): 187—198, 2009.

14. Soutaro Matsumoto and **Adel Bouhoula**. Automatic Verification of Firewall Configurations with respect to Security Policy Requirements. *Journal of Information Assurance and Security*, 4(6): 640-647, 2009.
15. Mehdi Talbi, Mohamed Mejri and **Adel Bouhoula**. Specification and Evaluation of Polymorphic Shellcode Properties Using a New Temporal Logic. *Journal in Computer Virology*. 5(3): 171-186, 2009.
16. Nizar Ben Neji and **Adel Bouhoula**. Dynamic Scheme for Packet Classification Using Splay Trees. *Journal of Information Assurance and Security (JIAS)*. 4: 133-141. 2009.
17. Nihel Ben Youssef Ben Souayah, **Adel Bouhoula** and Florent Jacquemard. Automatic Validation of Firewall Configurations using SMT Solvers. *International Journal of Information Assurance and Security (JIAS)*, 5(5): 561-568. Dynamic Publishers. 2010.
18. Tarek Abbas, **Adel Bouhoula**, Michael Rusinowitch. Efficient Decision Tree for Protocol Analysis in Intrusion Detection. *International Journal of Security and Networks*. 5(4). 2010.
19. Meriam Ben-Ghorbel-Talbi, Frédéric Cuppens, Nora Cuppens-Boulahia, **Adel Bouhoula**. A delegation model for extended RBAC. *International Journal of Information Security*. 9(3): 209-236. 2010.
20. Sourour Meharouech, **Adel Bouhoula**, Tarek Abbas: Network Security Alerts Management Architecture for Signature-Based Intrusions Detection Systems within a NAT Environment. *Journal of Network and Systems Management*. 19(4): 472-495. 2011.
21. Sourour Meharouech, **Adel Bouhoula**, Tarek Abbas: Trusted intrusion detection architecture for high-speed networks based on traffic classification, load balancing and high availability mechanism. *Security and Communication Networks*. 4(4): 384-394. 2011.
22. **Adel Bouhoula** and Florent Jacquemard. Sufficient Completeness Verification for Conditional and Constrained TRS. *Journal of Applied Logic*. 10(1): 127-143. 2012.
23. Nizar Ben Neji and **Adel Bouhoula**. Managing hybrid packet filter's specifications. *International Journal of Security and Network*. 7(2): 73-82. 2012.
24. Nizar Ben Neji and **Adel Bouhoula**. A prefix-based approach for managing hybrid specifications in complex packet filtering. *Computer Networks*. 56(13): 3055-3064. 2012.
25. Abdallah Ghourabi, Tarek Abbas and **Adel Bouhoula**. Characterization of Attacks Collected from the Deployment of Web Service HoneyPot. To appear in *Security and Communication Networks*.

II. Refereed conference papers:

1. **Adel Bouhoula**, Emmanuel Kounalis, and Michaël Rusinowitch. SPIKE: an automatic theorem prover (System Description). Proceedings of the 1st International Conference on Logic Programming and Automated Reasoning, volume 624 of Lecture Notes in Artificial Intelligence, pages 460--462. Saint Petersburg (Russia), July 1992. Springer-Verlag.
2. **Adel Bouhoula** and Michaël Rusinowitch. Automatic Case Analysis in Proof by Induction. Proceedings of the 13th International Joint Conference on Artificial Intelligence, volume 1, pages 88--94. Chambéry (France), 1993.
3. **Adel Bouhoula**. SPIKE: a System for Sufficient Completeness and Parameterized Inductive Proof (System Description). In A. Bundy, editor, Proceedings 12th International Conference on Automated Deduction, Nancy (France), volume 814 of Lecture Notes in Artificial Intelligence, pages 836--840. Springer-Verlag, June 1994.
4. **Adel Bouhoula**. Sufficient Completeness and Parameterized Proofs by Induction. In Proceedings Fourth International Conference on Algebraic and Logic Programming, Madrid (Spain), volume 850 of Lecture Notes in Computer Science, pages 23--40. Springer-Verlag, September 1994.
5. **Adel Bouhoula** and Michaël Rusinowitch. SPIKE: a System for Automatic Inductive Proofs (System Description). In V.S. Alagar and Maurice Nivat, editors, Proceedings of the fourth International Conference on Algebraic Methodology and Software Technology, Montreal (Canada), volume 936 of Lecture Notes in Computer Science, pages 576--577. Springer-Verlag, July 1995.
6. Narjes Berregeb, **Adel Bouhoula**, and Michaël Rusinowitch. Automated Verification by Induction with Associative-Commutative Operators. Proceedings of the 7th International Conference on Computer Aided Verification, New Brunswick (New Jersey, USA), volume 1102 of Lecture Notes in Computer Science, pages 220--231. Springer-Verlag, July 1996.
7. Narjes Berregeb, **Adel Bouhoula**, and Michaël Rusinowitch. Spike-AC: a System for Proofs by Induction in Associative-Commutative Theories (System Description). Proceedings of the 7th International Conference on Rewriting Techniques and Applications, New Brunswick (New Jersey, USA), volume 1103 of Lecture Notes in Computer Science, pages 428--431. Springer-Verlag, July 1996.
8. **Adel Bouhoula**. A General Framework for Mechanizing Induction using Test Set. Proceedings of the 4th Pacific Rim International Conference on Artificial Intelligence, Cairns (Australia), volume 1114 of Lecture Notes in Artificial Intelligence, pages 1--12. Springer-Verlag, August 1996.
9. **Adel Bouhoula**, Jean-Pierre Jouannaud, and José Meseguer. Specification and Proof in Membership Equational Logic. Invited talk at the International Colloquium on Trees in Algebra and Programming - CAAP'97, Lille (France). Volume 1214 of Lecture Notes in Computer Science, pages 67--92. Springer-Verlag, April 1997.
10. **Adel Bouhoula** and Jean-Pierre Jouannaud. Automata-Driven Automated Induction. Proceedings of the 12th IEEE Symposium on Logic in Computer Science - LICS-97, Warsaw (Poland), pages 14--25, June-July 1997.

11. Narjes Berregeb, **Adel Bouhoula**, and Michaël Rusinowitch. Observational proofs with critical contexts. In Proceedings of the 1st International Conference on Fundamental Approaches to Software Engineering, Lisbon (Portugal), volume 1382 of Lecture Notes in Computer Science, pages 38--53. Springer-Verlag, March--April 1998.
12. **Adel Bouhoula**. Simultaneous Checking of Completeness and Ground Confluence. In Proceedings of the 15th IEEE International Conference on Automated Software Engineering, Grenoble (France), pages 143--151, September 2000.
13. Tarek Abbes and **Adel Bouhoula**. Détection d'interaction de services de telecommunications. In Premier Congrès Francophone MAJECSTIC 03, Octobre 2003.
14. Tarek Abbes, **Adel Bouhoula**, and Michaël Rusinowitch. Filtrage efficace pour la detection d'intrusions. In Conférence Sécurité et Architecture Réseaux SAR 2003, Juillet 2003.
15. Tarek Abbes, **Adel Bouhoula**, and Michaël Rusinowitch. Protocol Analysis in intrusion detection using decision tree. In International Conference on Information Technology: Coding and Computing (ITCC'04), volume 1, pages 404—408, Las Vegas (USA), Avril 2004.
16. Ahlem Bouchahda-Ben Tekaya, **Adel Bouhoula** and Faten Labbene-Ayachi. Secure Information Systems Development Approaches: A Survey Study. In Proceedings of the *Tunisia-Japan Symposium on Society, Science & Technology, 7th Edition (TJASSST'06)*. Sousse, Tunisia. Décembre 2006.
17. Mehdi Talbi, **Adel Bouhoula** and Mohamed Mejri. New Temporal Logic for Polymorphic Shellcode Detection. In Proceedings of *the Tunisia-Japan Symposium on Society, Science & Technology, 7th Edition (TJASSST'06)*. Sousse, Tunisia. Décembre 2006.
18. Frédéric Cuppens, Nora Cuppens, **Adel Bouhoula** and Meriam Ben Ghorbel. Delegation model for OrBAC: Extended abstract. In Proceedings of *the Tunisia-Japan Symposium on Society, Science & Technology, 7th Edition (TJASSST-06)*. Sousse, Tunisia. Décembre 2006.
19. Sourour Meharouech, **Adel Bouhoula** and Tarek Abbes. A Stateful Real Time Intrusion Detection System for high-speed network. In Proceedings of *the Tunisia-Japan Symposium on Society, Science & Technology, 7th Edition (TJASSST-06)*. Sousse, Tunisia. Décembre 2006.
20. **Adel Bouhoula** and Zouheir Trabelsi. Handling Anomalies in Distributed Firewalls. In Proceedings of the *Innovations in Information Technology Conference*. Dubai (Emirates Arabe Unis). Décembre 2006.
21. Hédi Hamdi, **Adel Bouhoula** and Mohamed Mosbah. Specification and refinement of security policy : a programming language technology approach. In Proceedings of the *8th International Symposium on Systems and Information Security (ISSI-06)*, Sao Jose dos Campos, Sao Paulo, Brazil. Novembre 2006.
22. Hédi Hamdi, **Adel Bouhoula** and Mohamed Mosbah. A policy Based approach for securing ditributed systems. In Proceedings of the *2nd SKLOIS Conference on Information Security and Cryptology (INSCRYPT (formerly CISC)-06)*. Beijing, China. Novembre 2006.
23. **Adel Bouhoula** and Florent Jacquemard. Automating Sufficient Completeness Check for Conditional and Constrained TRS. In Proceedings of the *20th International Workshop on Unification (UNIF-06)*, Seattle, Washington, USA. Août 2006.

24. **Adel Bouhoula** and Florent Jacquemard. Security Protocols Verification with Implicit Induction and Explicit Destructors. In Proceedings of the *1st International Workshop on Security and Rewriting Techniques (SecReT-06)*, Venice, Italy. Juillet 2006.
25. Hédi Hamdi, **Adel Bouhoula** and Mohamed Mosbah. Approche langage pour la spécification des politiques de sécurité . In Proceedings of the *7^{ème} Colloque Francophone de Gestion de Réseaux et de Services(GRES'06)*. Bordeaux, France. Mai 2006.
26. Mohamed Anis Benelbahri, **Adel Bouhoula** and Zouheir Trabelsi. Matrix Approach for anomalies detection and correction in firewall filtering rules. In Proceedings of the *7^{ème} Colloque Francophone de Gestion de Réseaux et de Services(GRES'06)*. Bordeaux (France). Mai 2006. (Prix Jeune Chercheur du colloque).
27. Hédi Hamdi, **Adel Bouhoula** and Mohamed Mosbah. PPL : un langage pour la spécification des politiques de sécurité . In Proceedings of the *sixièmes journées scientifiques des jeunes chercheurs en génie Electrique et Informatique (GEI'06)*. Hammamet, Tunisia. Mars 2006.
28. Meriam Ben Ghorbel-Talbi, Frédéric Cuppens, Nora Cuppens-Boulahia, **Adel Bouhoula**. Managing Delegation in Access Control Models. In Proceedings of the *15th International Conference on Advanced Computing and Communication (ADCOM'07)*. Guwahati, Inde. Décembre 2007. IEEE Computer Society.
29. Mohamed Anis Benelbahri, **Adel Bouhoula** and Zouheir Trabelsi. XML based open tool for anomalies detection in firewall filtering rules. In Proceedings of the *International Conference on Innovations in Information Technology (Innovations'07)*. Novembre 2007.
30. Hédi Hamdi, **Adel Bouhoula** and Mohamed Mosbah. A Software Architecture for Automatic Security Policy Enforcement in Distributed Systems. In Proceedings of the *International Conference on Emerging Security Information, Systems and Technologies (SECURWARE-07)*. Valencia (Spain). Octobre 2007.
31. Hédi Hamdi, Mohamed Mosbah and **Adel Bouhoula**. A Domain Specific language for Securing Distributed Systems. In Proceedings of the *Second International Conference on Systems and Networks Communications (ICSNC-07)*. Cap Esterel, French Riviera, France. Août 2007.
32. Mohamed Anis Benelbahri and **Adel Bouhoula**. Based Approach for Anomalies Detection within Firewall Filtering Rules. In Proceedings of the *IEEE Symposium on Computers and Communications(ISCC-07)*. Aveiro, Portugal. Juillet 2007.
33. Hédi Hamdi, **Adel Bouhoula** and Mohamed Mosbah. Automating Enforcement Mechanisms Generation for Security Policies in Distributed Systems. In Proceedings of the *IEEE Global informations infrastructures Symposium (GIIS-07)*. (Poster paper). Maroc. Juillet 2007.
34. **Adel Bouhoula** and Florent Jacquemard. Verifying Regular Trace Properties of Security Protocols with Explicit Destructors and Implicit Induction. In Proceedings of the *Joint Workshop on Foundations of Computer Security and Automated Reasoning for Security Protocol Analysis (FCS-ARSPA'07)*. Wroclaw, Poland. Juillet 2007.
35. Anis Yazidi and **Adel Bouhoula**. A Tool for Resolving Packet Filter Conflicts. In Proceedings of the *2nd Conference on Security in Network Architecture and Information Systems (SAR-SSI-07)*. Annecy, France. Juin 2007.

36. Sourour Meharouech, **Adel Bouhoula** and Tarek Abbes. A Stateful Real Time Intrusion Detection System for high-speed network. In Proceedings of the *IEEE 21st International Conference on Advanced Information Networking and Applications (AINA-07)*. Niagara Falls, Canada. Mai 2007.
37. Tarek Abbes, **Adel Bouhoula** and Michaël Rusinowitch. A Traffic Classification Algorithm for Intrusion Detection. In Proceedings of the *Symposium on Frontiers in Networking with Applications (FINA'07)*. Niagara Falls, Canada. Mai 2007.
38. Sourour Meharouech, **Adel Bouhoula** and Tarek Abbes. A Model Based on Parallel Intrusion Detection Systems for High Speed Networking Security. In Proceedings of the *International Conference on New Technologies, Mobility and Security (NTMS'07)*. Paris, France. Mai 2007.
39. Anis Yazidi and **Adel Bouhoula**. A new approach for anomalies resolution within filtering rules. In Proceedings of the *International Conference on New Technologies, Mobility and Security (NTMS'07)*. (Poster paper). Paris, France. Mai 2007.
40. Soutaro Matsumoto and **Adel Bouhoula**. Automatic Verification of Firewall Configuration with Respect to Security Policy Requirements. In Proceedings of the *International Workshop on Computational Intelligence in Security for Information Systems (CISIS'08)*. Advances in Soft Computing Series, Springer-Verlag, Italy, Pages 123—130, Octobre 2008.
41. Nizar Ben Neji and **Adel Bouhoula**. Self-adjusting Scheme for High Speed Routers. In Proceedings of the *33rd IEEE Conference on Local Computer Networks (LCN'08)*. Canada. Octobre 2008.
42. Nizar Ben Neji and **Adel Bouhoula**. Dynamic Scheme for Packet Classification Using Splay Trees. In Proceedings of the *International Workshop on Computational Intelligence in Security for Information Systems (CISIS'08)*. Advances in Soft Computing Series, Springer-Verlag, Italy, Pages 211—218. Octobre 2008.
43. Mehdi Talbi, Benjamin Morin, Valérie Viet Triem Tong, **Adel Bouhoula**, Mohamed Mejri. Specification of Electronic Voting Protocols Properties using ADM Logic. In Proceedings of the *10th International Conference on Information and Communications Security (ICICS'08)*. Birmingham, UK. Octobre 2008. LNCS Springer.
44. Mehdi Talbi, Benjamin Morin, Valérie Viet Triem Tong, **Adel Bouhoula**, Mohamed Mejri. Spécification Formelle des Propriétés des Protocoles de Vote Electronique au moyen de la Logique ADM. In Proceedings of the *3rd Conference On Security in Network Architecture and Information Systems (SARSSI'08)*. Loctudy, France. Octobre 2008.
45. Meriam Ben Ghorbel-Talbi, Frédéric Cuppens, Nora Cuppens-Boulahia, **Adel Bouhoula**. Revocation Schemes for Delegation Licences. In Proceedings of the *10th International Conference on Information and Communications Security (ICICS'08)*. Birmingham, UK. Octobre 2008. LNCS Springer.
46. Meriam Ben Ghorbel-Talbi, Frédéric Cuppens, Nora Cuppens-Boulahia, **Adel Bouhoula**. Managing Revocation in Role Based Access Control Models Using Delegation Licence. In Proceedings of the *3rd Conference on Security in Network Architecture and Information Systems (SAR/SSI'08)*. Loctudy, France. Octobre 2008.

47. **Adel Bouhoula** and Florent Jacquemard. Automated Induction with Constrained Tree Automata. In Proceedings of the *4th International Joint Conference on Automated Reasoning*. Sydney (Australia), volume 5195 of Lecture Notes in Computer Science, pages 539--554. Springer-Verlag Août 2008.
48. Sourour Meharouech, **Adel Bouhoula**, and Tarek Abbes. Collaboration between Security Devices toward improving Network Defense. In Proceedings of the *7th IEEE International Conference on Computer and Information Science (ICIS-08)*. Portland, Oregon, USA, Mai 2008. IEEE Computer Society.
49. Tarek Abbes, **Adel Bouhoula**, and Michaël Rusinowitch. Inference System for Detecting Firewall Filtering Rules Anomalies. In Proceedings of the *23rd Annual ACM Symposium on Applied Computing*. Fortaleza, Ceara, Brazil. Mars 2008.
50. Meriam Ben Ghorbel-Talbi, Frédéric Cuppens, Nora Cuppens-Boulahia and **Adel Bouhoula**. An Extended Role-based Access Control Model for Delegating Obligations. In Proceedings of the *6th International Conference on Trust, Privacy & Security in Digital Business (TrustBus'09)*. Septembre 2009. Linz, Autriche. LNCS Springer.
51. Mohamed Ali Ayachi, Christophe Bidan, Tarek Abbes and **Adel Bouhoula**. Implicit Trust Analysis of the AODV Routing Protocol. In Proceedings of the Tunisia - Japan Workshop on Symbolic Computation in Software Science (SCSS'09). 22-24 Septembre 2009. Gammarth, Tunisie.
52. Sourour Meharouech, **Adel Bouhoula**, Tarek Abbes. "Problems of Network Address Translation on Security Devices". In Proceedings of the Tunisia - Japan Workshop on Symbolic Computation in Software Science (SCSS'09). Septembre 22-24, 2009, Gammarth, Tunisie.
53. Mohamed Ali Ayachi, Christophe Bidan, Tarek Abbes and **Adel Bouhoula**. Misbehavior Detection using Implicit Trust Relations in the AODV Routing Protocol. In Proceedings of the IEEE/IFIP International Symposium on Trusted Computing and Communications. Août 2009. Vancouver, Canada.
54. Nihel Ben Youssef, **Adel Bouhoula**, Florent Jacquemard. Automatic Verification of Conformance of Firewall Configurations to Security Policies, In Proceedings of the IEEE Symposium on Computers and Communications (ISCC'09). Juillet 2009. Sousse, Tunisia.
55. Hédi HAMDI, **Adel Bouhoula** and Mohamed Mosbah, "Approche langage pour la spécification des politiques de sécurité" (GRES'09), bordeaux.
56. Abdallah Ghourabi, Tarek Abbes, **Adel Bouhoula**. Honeypot Router for routing protocols protection. In the 4th International Conference on Fourth International Conference on Risks and Security of Internet and Systems , Toulouse, France 2009.
57. Mohamed Ali Ayachi, Christophe Bidan, Tarek Abbes and **Adel Bouhoula**. Analyse de la confiance dans AODV. In Proceedings of the 4th Conference on Security in Network Architecture and Information Systems (SAR/SSI'09). Juin 2009. Luchon, France.
58. Sourour Meharouech, **Adel Bouhoula** and Tarek Abbes. Security Implications of Network Address Translation on Intrusion Detection and Prevention Systems. In Proceedings of the IFIP International Conference on Network and Service Security (N2S'09). Juin 2009, Paris - France.

59. Mehdi Talbi, Valerie Viet Triem Tong and **Adel Bouhoula**. Specification of Anonymity as a Secrecy Property in the ADM Logic - Homomorphic-based Voting. In Proceedings of the 4th International Conference on Availability, Reliability and Security (ARES'09). Mars 2009. Fukuoka, Japon.
60. Sourour Meharouech, **Adel Bouhoula** and Tarek Abbes. Adaptive Intrusion Detection Systems Alerts Correlation according to the Traffic Type and the Attacks Properties. In Proceedings of the IEEE International Advance Computing Conference (IACC'09). Mars 2009, India.
61. Sourour Meharouech, **Adel Bouhoula** and Tarek Abbes. Environmental Awareness Intrusion detection and prevention System toward reducing false positives and false negatives. In Proceeding of the IEEE Symposium on Computational Intelligence in Cyber Security (CICS'09). Mars–Avril 2009, Nashville, Tennessee, USA.
62. Nihel Ben Youssef and **Adel Bouhoula**. Automatic Conformance Verification of Distributed Firewalls to Security Requirements. In Proceedings of the second IEEE International Conference on Information Privacy, Security and Risk. Minneapolis (USA), Août 2010.
63. Ahlem Bouchahda-Ben Tekaya, Nhan Le Thanh, **Adel Bouhoula** and Faten Labbane-Ayachi. RBAC+: Dynamic Access Control for RBAC-administered Web-based Databases. In Proceedings of the Fourth International Conference on Emerging Security Information, Systems and Technologies, SECURWARE 2010, July 18 - 25, 2010 Venice– Italy. Pages 135-140. IEEE Computer Society
64. Ahlem Bouchahda-Ben Tekaya, Nhan Le Thanh, **Adel Bouhoula** and Faten Labbane-Ayachi. An Access Control model for Web Databases. In Proceedings of the 24th Annual IFIP WG 11.3 Working Conference on Data and Applications Security (DBSEC'2010) Rome, Italy . Volume 6166 in the Lecture Notes in Computer Science series. pages 287-294. Springer-Verlag. Juin 2010.
65. Ahlem Bouchahda-Ben Tekaya, Nhan Le Thanh, **Adel Bouhoula** and Faten Labbane-Ayachi. Enforcing Access Control to Web Databases. In Proceedings of the 10th IEEE Conference on Computer and Information Security (CIT'2010) Bradford, United Kingdom – 29 June- 01 July 2010. IEEE Computer Society.
66. Nihel Ben Youssef and **Adel Bouhoula**. Automatic Correction of Firewall Mis-configurations. Symbolic Computation in Software Science (SCSS 2010). Castle of Hagenberg. Austria. July 2010.
67. Ghourabi, T. Abbes and **Adel Bouhoula**, "Data Analyzer based on data mining for Honeypot Router". To appear in The eighth ACS/IEEE International Conference on Computer Systems and Applications (AICCSA'10), Hammamet Tunisia, May 2010
68. Abdallah Ghourabi, Tarek Abbes and **Adel Bouhoula**, "Experimental analysis of attacks against Web services and countermeasures" accepted at the 12th International Conference on Information Integration and Web-based Applications & Services (iiWAS2010), Paris, France, November 2010.

69. Nizar Ben Neji, **Adel Bouhoula** and Masato Kimura. Enabling Flexible Packet Filtering Through the K-map Priority Elimination Technique. To appear in The Proceedings of the 36th IEEE Conference on Local Computer Networks (LCN 2011). This article has been selected as one of the three Best Paper candidates in LCN 2011.
70. Abdallah Ghourabi, Tarek Abbes and **Adel Bouhoula**. Design and Implementation of Web Service Honeypot. To appear in Proceedings of the 19th International Conference on Software, Telecommunications and Computer Networks (SoftCOM 2011). Split, Croatia, September 2011.
71. Nizar Ben Neji and **Adel Bouhoula**. Towards Safe and Optimal Filtering Rule Reordering for Complex Packet Filters. In Proceedings of the 5th International Conference on Network and System Security (NSS'11). Italy, 2011.
72. Nizar Ben Neji and **Adel Bouhoula**. NAF Conversion: An Efficient Solution for the Range Matching Problem in Packet Filters. In Proceedings of the 12th IEEE International Conference on High Performance Switching and Routing (HPSR'11). Spain, 2011.
73. Nihel Ben Youssef and **Adel Bouhoula**. A Fully Automatic Approach for Fixing Firewall Misconfigurations. In Proceeding of the 11th IEEE International Conference on Computer and Information Technology (CIT' 11). Pafos Cyprus. September 2011.
74. Nihel Ben Youssef and **Adel Bouhoula**. A Correct and Systematic Deployment of Network Security Policy into Centralized and Distributed Firewalls. In Proceeding of the Third IEEE International Conference on Information Privacy, Security, Risk and Trust (PASSAT'11). Boston USA, October 2011.
75. Nihel Ben Youssef and **Adel Bouhoula**. Dealing with Stateful Firewall Checking. In Proceeding of the International Conference on Digital Information and Communication Technology and its Applications. Springer (DICTAP'11). Communications in Computer and Information Science (CCIS) Series of Springer LNCS Volume 166, Part 4, pages 493-507. Dijon France. June 2011.
76. Abdallah Ghourabi, Tarek Abbes and **Adel Bouhoula**. Automatic Analysis of Web Service Honeypot Data using Machine Learning Techniques. In Proceedings of the 5th International Conference on Computational Intelligence in Security for Information Systems (CISIS 2012), Ostrava, Czech Republic, September 2012.
77. Nihel Ben Youssef Ben Souayeh and **Adel Bouhoula**. Towards Safe and Optimal Network Designs Based on Network Security Requirements. In the Proceedings of the 11th IEEE International Conference on Trust, Security and Privacy in Computing and Communications, (TrustCom 2012), pages 573-579. Liverpool, United Kingdom, June 25-27, 2012. IEEE Computer Society.

III. Workshop Papers :

1. **Adel Bouhoula**, Emmanuel Kounalis, and Michaël Rusinowitch. Automated Mathematical Induction with Test Sets. Workshop on the Automation of Inductive Proof. Saratoga prings, NY (USA), June, 1992.
2. **Adel Bouhoula** and Michaël Rusinowitch. Proofs by Implicit Induction. GDR Programmation days. University of Paris-Sud (France), October, 1993.
3. **Adel Bouhoula** and Michaël Rusinowitch. Case Analysis for Implicit Induction. Workshop on the Automation of Proof by Mathematical Induction. Washington DC (USA), July, 1993.
4. **Adel Bouhoula** and Michaël Rusinowitch. Implicit Induction on the computer. Workshop on Automated Theorem Proving. Chambéry (France), August, 1993.
5. **Adel Bouhoula** and Michaël Rusinowitch. Automatic Proof by Induction. PRC mécanisation du raisonnement meeting. Ecole normale supérieure of Lyon (France), April, 1993.
6. **Adel Bouhoula**. The Challenge of Mutual Recursion and Mutual Simplification in Implicit Induction. Invited talk at the International Workshop on the Automation of Proof by mathematical Induction. Nancy (France). June, 1994.
7. **Adel Bouhoula**. Test Set Induction in Conditional Theories. Réunion de l'opération inter PRC mécanisation du raisonnement. Grenoble (France), November, 1994.
8. **Adel Bouhoula**. Proofs in parameterized conditional specifications. In the 10th ADT Workshop and 6th General Compass Meeting. Genova (Italy), 1994.
9. **Adel Bouhoula**. Test set induction in parameterized theories. International Workshop on the Automation of Proof by Mathematical Induction. Nancy (France), 1994.
10. **Adel Bouhoula** and Michaël Rusinowitch. A General Format for Implicit Induction. International Workshop on the Automation of Proof by Mathematical Induction. Nancy (France), 1994.
11. Narjes Berregeb, **Adel Bouhoula**, and Michaël Rusinowitch. Extending SPIKE to Associative and Commutative Theories. In Seminar on Automation of Proof by Mathematical Induction, Wadern (Germany), July 1995.
12. **Adel Bouhoula** and Khaled Bsaïes. A New Framework for Mechanising Logic Program Diagnosis. In Sixth International Workshop on Logic Program Synthesis and Transformation, Stockholm (Sweden), August 1996.
13. **Adel Bouhoula**. Automated Theorem Proving by Test Set Induction. Invited talk at the International CafeOBJ workshop. Kanazawa (Japan), October 1997.
14. **Adel Bouhoula**. SPIKE: a system for Automatic Inductive Proofs. Invited talk at the International CafeOBJ workshop. Saitama (Japan), March 1997.

15. **Adel Bouhoula** and Jean-Pierre Jouannaud. Using Tree Automata Techniques in Proof by Induction. In Workshop on Tree Automata Techniques and Applications, Dagstuhl (Germany), October 1997.
16. **Adel Bouhoula**. Automatic Proofs by Test Set Induction. Invited talk at the Cafe Symposium. Numazu (Japan), April, 1998.
17. Narjes Berregeb, **Adel Bouhoula**, and Michaël Rusinowitch. Proving Observational Properties by Implicit Context Induction. International Workshop on the Automation of Proof by Mathematical Induction. Lindau (Germany), 1998.
18. **Adel Bouhoula**, Ahmed Jebali and Michaël Rusinowitch. Reasoning about Object Behaviours with Rewriting. Workshop on Object-Oriented Specification Techniques for Distributed Systems and Behaviours. Paris (France), 1999.
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